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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/810,687	03/29/2004	Boris Ginzburg	P-6582-US	1263	
49443 PEARL COHE	7590 09/24/2007 EN ZEDEK LATZER, LLP		EXAMINER		
1500 BROAD	WAY 12TH FLOOR		GELIN, JEAN ALLAND		
NEW YORK,	NY 10036		ART UNIT	PAPER NUMBER	
			2617		
			[·	
			MAIL DATE	DELIVERY MODE	
			09/24/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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	Application No.	Applicant(s)	
	10/810,687	GINZBURG ET AL.	
Office Action Summary	Examiner	Art Unit	
	Jean A. Gelin	2617	
The MAILING DATE of this communication appeariod for Reply	ppears on the cover sheet with the	correspondence address	
A SHORTENED STATUTORY PERIOD FOR REP WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory perior Failure to reply within the set or extended period for reply will, by statue Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATIO 1.136(a). In no event, however, may a reply be to d will apply and will expire SIX (6) MONTHS from the, cause the application to become ABANDON	N. Imely filed In the mailing date of this communication ED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on 10	July 2007.		
2a)⊠ This action is FINAL . 2b)☐ Th	is action is non-final.		
3) Since this application is in condition for allow	rance except for formal matters, pr	osecution as to the merits is	i
closed in accordance with the practice under	Ex parte Quayle, 1935 C.D. 11, 4	953 O.G. 213.	
Disposition of Claims			
4) ☐ Claim(s) 1,3-12,14-22,24-32,34 and 35 is/are 4a) Of the above claim(s) is/are withdr 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1,3-12,14-22,24-32,34 and 35 is/are 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and	awn from consideration.		
Application Papers	,		
9) The specification is objected to by the Examination The drawing(s) filed on is/are: a) and accomplicant may not request that any objection to the Replacement drawing sheet(s) including the correct of the option of the specific part of the specific par	ccepted or b) objected to by the e drawing(s) be held in abeyance. Section is required if the drawing(s) is o	ee 37 CFR 1.85(a). bjected to. See 37 CFR 1.121(d	I) .
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents. 2. Certified copies of the priority documents. 3. Copies of the certified copies of the priority documents. * See the attached detailed Office action for a list	nts have been received. nts have been received in Applica iority documents have been receiv au (PCT Rule 17.2(a)).	tion No ved in this National Stage	
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summar Paper No(s)/Mail I 5) Notice of Informal 6) Other:	Date	

Art Unit: 2617

DETAILED ACTION

1. This is in response to the Applicant's arguments and amendments filed on July 10, 2007 in which claims 1, 3, 12, 14, 22, 29, and 32 have been amended, and claims 2, 13, 23, and 33 have been canceled. Claims 1, 3-12, 14-22, 24-32, 34, and 35 are currently pending.

Claim Rejections - 35 USC § 112

- The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 3. Claims 1, 3-12, 14-22, 24-32, and 34-35 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Regarding claims 1, 12, 22, and 32, the phrase "select/selecting if to modulate a data packet using a first modulation type and to protect said data packet using a first protection mechanism, to modulate said data packet using said first modulation type and to protect said data packet using a Second protection mechanism, or to modulate said data packet using a second modulation type" is not clear. The Examiner does not see what is being selected. Appropriate correction is required.

All claims depend from independent claims 1, 12, 22, and 32 are also rejected for the same reasons recited avove.

Art Unit: 2617

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 5. Claims 1, 3-4, 12, 14-15, and 32 are rejected under 35 U.S.C. 102(e) as being anticipated by Choi et al. (US 2003/0169763).

Regarding claims 1, 12, and 32, Choi teaches selecting if to modulate a data packet using a first modulation type and to protect said data packet using a first protection mechanism, to modulate said data packet using said first modulation type and to protect said data packet using a Second protection mechanism, or to modulate said data packet using a second modulation type, based on a predetermined criterion related to a successful transmission of said data packet ([0012], [002], and [0028])

Regarding claims 3, 14, Li teaches said first modulation type comprises orthogonal frequency division multiplexing, and wherein said second modulation type comprises direct sequence spread spectrum/complementary code keying [001]).

Regarding claims 4, 15, Li teaches wherein said first protection mechanism comprises a request-to-send/clear-to-send protection mechanism, and wherein said second protection mechanism comprises a clear-to-send-to-self protection mechanism ([0028]).

Art Unit: 2617

Claim Rejections - 35 USC § 103

6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 7. Claims 22, 24, and 29 are rejected under 35 U.S.C. 103(a) as being unpatentable over Choi et al. (US 2003/0169763) in view of Li et al. (US 2005/0146470).

Regarding claims 22 and 29, Choi teaches a controller able to select if to modulate a data packet using a first modulation type and to protect said data packet using a first protection mechanism, to modulate said data packet using said first modulation type and to protect said data packet using a Second protection mechanism, or to modulate said data packet using a second modulation type, based on a predetermined criterion related to a successful transmission of said data packet ([0012], [002], and [0028])

Choi fail to teach one or more omni-directional antennas able to transmit said data packet.

However, the preceding limitation is known in the art of communications. Li teaches two omni-directional antennas are mounted on a laptop computer to provide spatial diversity to combat multipath fading ([0001]). Li (470) teaches multiple sectored antennas forms omni-directional antenna, the access point uses directional antenna, and the mobile station uses a plurality of sectored antennas to transmit packet on

Page 5

Art Unit: 2617

particular sub-bands ([0024]-[0025]). Therefore, it would have been obvious to one of ordinary skill in the art, at the time of the invention, to implement the technique of Choi within the system Li in order that the combination of various sectors may cover a radiation pattern of 0-360 degrees as an effective omni-directional antenna, and provide an antenna system that significantly improves the performance of devices operating in a WLAN network.

Regarding claims 24, Choi in view of Li teaches all the limitations above. Choi further teaches wherein said first protection mechanism comprises a request-tosend/clear-to-send protection mechanism, and wherein said second protection mechanism comprises a clear-to-send-to-self protection mechanism ([0028]).

Allowable Subject Matter

8. Claims 5-11, 16-21, 25-28, 30-31, and 34-35 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

Response to Arguments

9. Applicant's arguments with respect to claims 1, 3-4, 12, 14-15, 22, 24, 29, and 32 have been considered but are moot in view of the new ground(s) of rejection.

Art Unit: 2617

Conclusion

10. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

 Karaoguz et al.
 US 2005/0147071
 07/07/2005

 Kao et al.
 US 2004/0264600
 12/30/2004

 Kim et al.
 US 2004/0165564
 08/26/2004

11. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Application/Control Number: 10/810,687

Art Unit: 2617

Page 7

12. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jean A. Gelin whose telephone number is (571) 272-7842. The examiner can normally be reached on 9:30 AM to 7:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Charles Appiah can be reached on (571) 272-7904. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

7

JEAN GELIN PRIMARY EXAMINER

J.Gelin September 17, 2007 Jean Gelin